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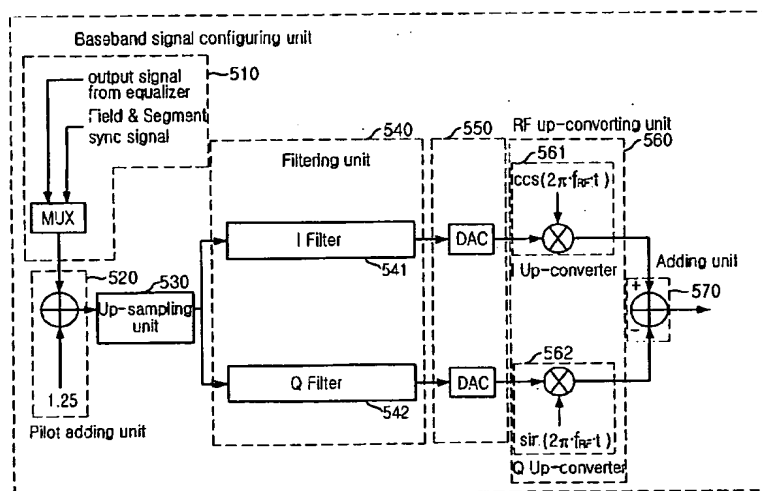
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(54) Title: APPARATUS AND METHOD FOR MODULATING OF ON-CHANNEL REPEATER



(57) Abstract: Provided is a modulating apparatus and method of an on-channel repeater. An object of the present invention is to provide a modulating apparatus of an on-channel repeater for reducing time delay by configuring and up-sampling a baseband signal, filtering the up-sampled baseband signal with an Equi-Ripple (ER) filter or in a window method, and converting the filtered baseband signal into an RF signal. The modulating apparatus includes: a baseband signal configuring unit for configuring a baseband signal by combining an input field and a segment sync signal; a pilot adding unit for adding a pilot signal to the baseband signal; a filtering unit for filtering the baseband signal with the pilot signal; and an RF up-converting unit for up-converting the filtered signal into an RF signal. The present invention is used to form an on-channel repeating network in a transmitting system including a digital TV broadcasting system.

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